



Hillrom™

Welch Allyn®
H3+™

디지털 홀터 레코더
사용자 설명서



© 2021

Welch Allyn, Inc.

Welch Allyn,

Inc.

Welch Allyn

Welch Allyn, Inc.

.H3+

Welch Allyn, Inc.

.Inc.,

:3.0.X2017-09

hillrom.com/patents

.Hill-Rom

Hillrom

Hillrom

Hillrom

(1.888.667.8272, mor_tech.support@hillrom.com)

REF

9515-165-50-KORRevC
:2021-05

#

901142



Welch Allyn, Inc.
4341 State Street Road
Skaneateles Falls, NY 13153 USA

EC **REP**

EU

:

Welch Allyn Limited
Navan Business Park, Dublin Road,
Navan, Co. Meath C15 AW22
Ireland

:

Welch Allyn Australia Pty. Ltd.
Unit 4.01, 2-4 Lyonpark Road
Macquarie Park NSW 2113
800 650083

hillrom.com

Welch Allyn, Inc Hill-Rom Holdings, Inc.



Hillrom™

Welch Allyn, Inc., :

- Welch Allyn, Inc. , , ,

Welch Allyn, Inc., .

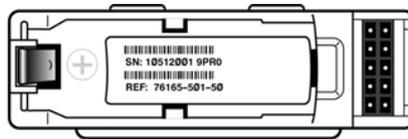
YYYWWSSSSSS

YYY = Y 1

WW =

SSSSSS =

(REF)



Allyn, Inc. , ,

Welch

Welch Allyn, Inc.,

. Welch Allyn, Inc.,

. Welch Allyn, Inc.,

EU

/

/

Welch Allyn

WELCH ALLYN. INC., ("Welch Allyn") Welch Allyn (" ")
(12) , Welch Allyn

90

,Y-

90

90

:

a) ;

b) Welch Allyn ;

c) , , / ;

d) ; ;

e) Welch Allyn ;

f) Welch Allyn ;

, Welch Allyn

WELCH ALLYN.

Welch Allyn

Welch Allyn

(i) Welch Allyn

Welch Allyn Welch Allyn

(ii)

Welch Allyn

. Welch Allyn

Welch Allyn

. Welch Allyn

()

, Welch Allyn

Welch Allyn

Welch Allyn



⋮
⋮
⋮



-
-
-
-
-
-
-
-
-
-
-

Welch Allyn

2601-1, IEC 60601-1 IEC 60601-2-47

UL
Welch Allyn
(7 Kohm)

CF

-
-

- ECG 24

- (:)

- FCC (Part 15.21):

- (HF)

-

-

-

-

-

-

-

7

H3PLUS-CXX-XXXXX

:48

H3+

5.14

H3+

168

(7)

H3+

H3+

CD

(9515-165-50-CD) H3Prog

H3+

- :Hscribe Holter

48

Hscribe

(9515-213-70-ENG)

Indications for Use()

-

-

-

-

-

-

- H3+ 10kg(22lbs)

-



- H3+

-

-

/

(ETO)

-

-

CF

-

-

-

-

-

MRI() CT()

-

(: , ,)

- AAA

-

: 10° +45°C
: -20° +65°C
: 5 95%,
: 700 1060millibars

-
- ECG

-

-

-

-

-

- H3+

- AAA

24

- H3+

H3+

H3scribe

Welch Allyn Web Upload

-

Welch Allyn

- IEC 60601-1 IEC 60601-2-47

-

- CF

-

-

-

-

UL

:



No. 601.1 IEC60601-2-47

UL60601-1, IEC60601-1, CAN/CSA C22.2



: , , ,

: .

CF

/ (DFU)
.DFU

--
Welch Allyn

DFU
7

-
- -
 -

-
-
-
-

3

www.welchallyn.com/weee

(EMC)

(IEC 60601-1-2)
60601-1-2)

EMC

IEC

(EMC)

(EN

EMC

Welch Allyn

:

RF CISPR 11	1	RF
RF CISPR 11	B	
IEC 61000-3-2		
/ IEC 61000-3-3		

:

(ESD) IEC 61000-4-2	+/- 6 kV +/- 8 kV	+/- 6 kV +/- 8 kV	30%
/ IEC 61000-4-4			
EN 61000-4-5			
EN 61000-4-11			
(50/60Hz)	3 A/m	3 A/m	

: UT

AC

:

IEC 60601		:	
RF IEC 61000-4-6	3 Vrms 150 kHz 80 MHz	3 Vrms 150 kHz 80 MHz	RF $d = \left[\frac{3.5}{3V_{rms}} \right] \sqrt{P}$ $d = \left[\frac{3.5}{3V_{rms}} \right] \sqrt{P}$ 80 MHz 800 MHz
RF IEC 61000-4-3	3 V/m 80 MHz 2.5 GHz	3 V/m 80 MHz 2.5 GHz	$d = \left[\frac{3.5}{3V_{rms}} \right] \sqrt{P}$ 800 MHz 2.5 GHz P (W) , d (m) a RF b : 

a. (/) , , AM/FM , TV
RF

b. 150 kHz 80 Mhz [3] V/m

휴대용 및 모바일 RF 통신 장비와 본 장비 사이의 권장 분리 거리

RF

RF ()

W	(m)	
	150 KHz ~ 800 MHz	800 MHz ~ 2.5 GHz
	$d = 1.2\sqrt{P}$	$d = 2.3\sqrt{P}$
0.01	0.1 m	0.2 m
0.1	0.4 m	0.7 m
1	1.2 m	2.3 m
10	4.0 m	7.0 m
100	12.0 m	23.0 m

(W) , (m) P d

1: 800 Mhz

2:

안내	1
.....	1
.....	1
.....	1
.....	1
.....	2
EU /	2
보증 정보	3
WELCH ALLYN	3
사용자 안전 정보	5
.....	9
일반 관리	10
.....	10
.....	10
.....	10
.....	10
.....	10
전자기 호환성 (EMC)	11
목차	15
머리말	17
.....	17
.....	17
.....	17
.....	17
..... H3+	18
..... H3+	18
.....	19
.....	19
7 H3+	20
작동	22
ID /	22
.....	22
.....	22
.....	23
.....	24
.....	25
.....	26
ECG	27
.....	27
.....	27
()	28
.....	28

.....	29
유지 보수.....	31
H3+	31
.....	31
.....	32
.....	32
메시지 및 정보.....	33
.....	33
.....	33
.....	34
.....	34

H3+™

H3+

-
-
-

H3+Holter

ECG

7

H3+

ECG(Holter)

H3+

H3+Holter

H3+

24

,48

7

3

ECG

:

• 48

48

H3PLUS-BXX-XXXXXX

• 7

7

H3PLUS-CXX-XXXXXX

• 7

.7

,24 48

H3+ Programming Tool(H3+)

LCD

5

27

(69 cm)

15

ECG I, II, V
(38 cm)3

LCD R

HH:MM:SS
ECG

H3+

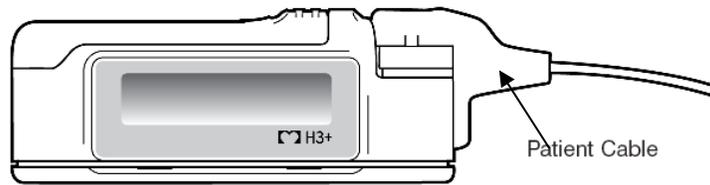
H3+ AAA 1 ECG
H3+ ,USB

H3+ ECG USB

H3+

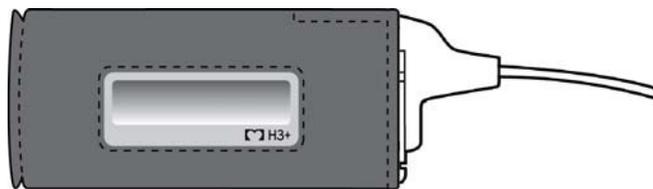
H3+

LCD



H3+

LCD



7	H3+ Digital Holter	H3PLUS-CXX-XXXXX
48	H3+ Digital Holter	H3PLUS-BXX-XXXXX
H3+USB		25019-006-60
		8348-003-70
		8485-022-50
	,100	8485-031-51
69cm H3+5	AHA	9293-036-52
69cm H3+5	IEC	9293-036-53
38 cm H3+5	AHA	9293-036-62
38 cm H3+5	IEC	9293-036-63
	10	419722
	300	108070
H3+		9515-165-50-CD
	-	9503-165-02-ENG
	,100	881712-50

Welch Allyn

	3
	I, II, III, aVR, aVL, aVF, V
	IEC 60601-2-47
	180 s/sec/channel
	; ECG
A/D	12
	, ;48 7
	CF ,
	1 (28 g)
	2.5 x 1.0 x 0.75 (64 x 25 x 19 mm)
	1 AAA

7 H3+

참고: 이 도구는 출고시 7 일 레코더로 구성되어 H3PLUS-CXX-XXXXX 로 주문된
경우에만 사용합니다.

H3+ (H3PLUS-CXX-XXXXX) 7 .H3+
H3+

32 64 Microsoft® Windows® 7 Professional Microsoft Windows 8.1
Professional 64

- 24 H (24),
- 48 H (48),
- 7 Day (7 168)



: V5.14 H Scribe 48
5.13 7
24 48



: , H Scribe Holter 48
H Scribe (9515-213-70-ENG)
Indications for Use()
: Welch Allyn

H3+ H3+ CD(PN9515-165-50-CD) H3Prog

H3+ :

1. CD

2. H3+ H3+ USB

3. Get Status

4. H3+

5.



6.

H3+

ID

/

ID

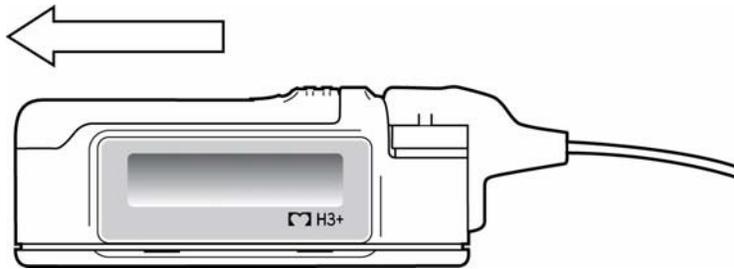
USB

H3+

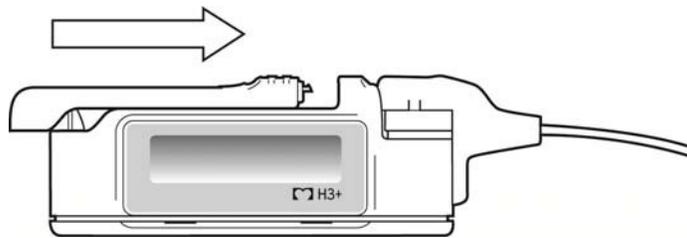
ID

H3+

H3+

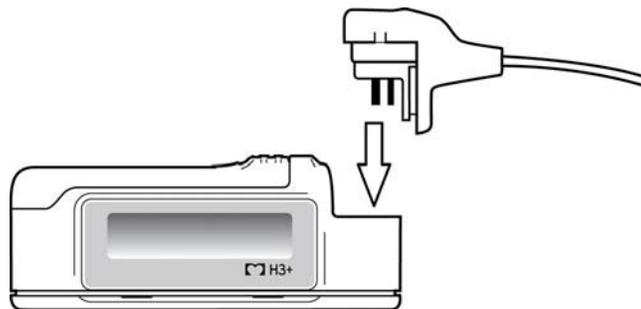


H3+



H3+

H3+

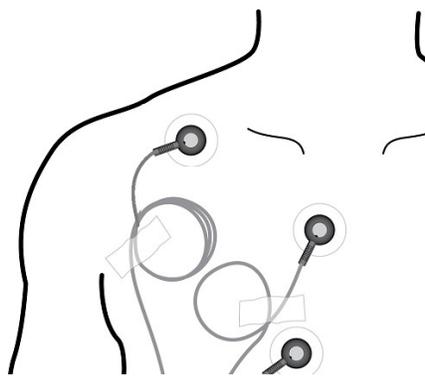


, H3+

ECG

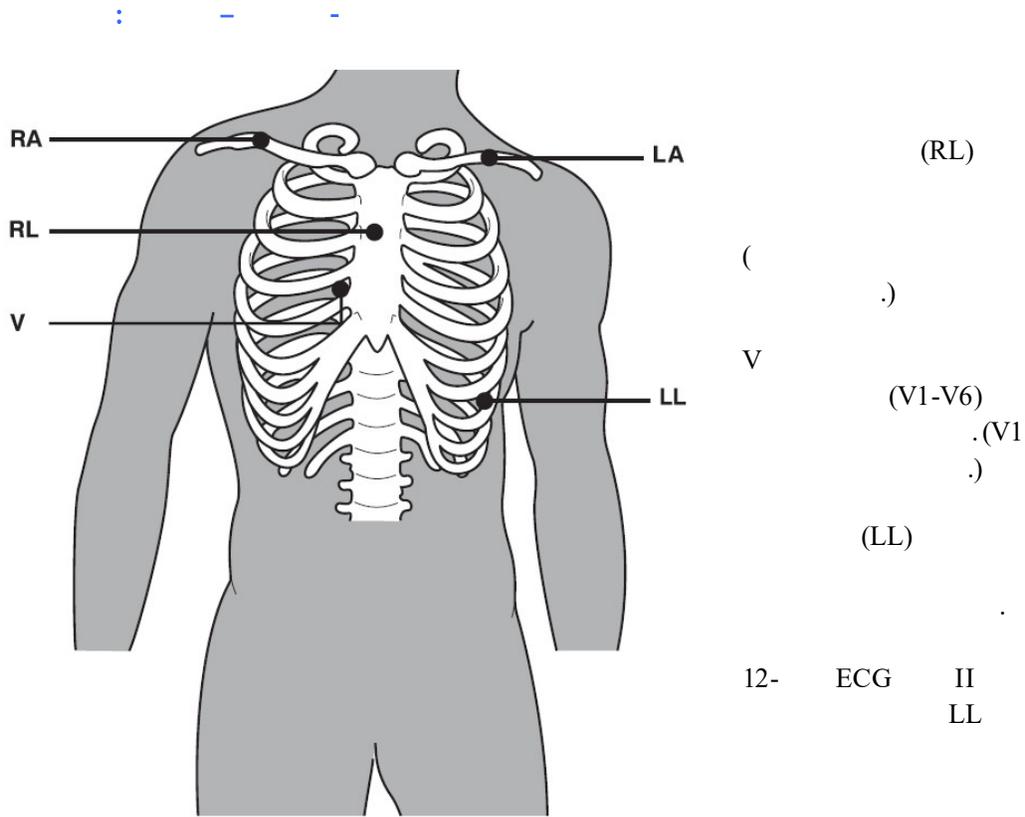
_____ :

1. (5)
- 2.
- 3.
- 4.
- 5.
6. 5
- 7.



8. AAA ECG

9. H3+ (: ; ,).



12- ECG II
LL

AHA	IEC	
RA	R	
LA	L	
RL	N	
LL	F	
V	C	

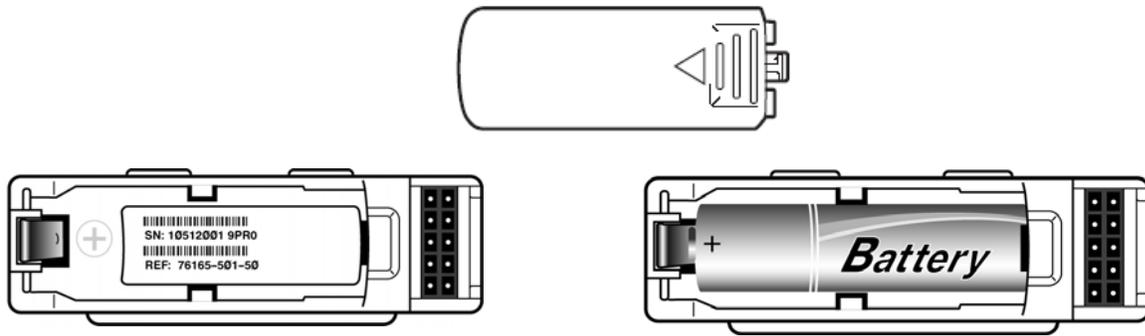
AHA	IEC
RA =	R =
LA =	L =
RL =	N =
LL =	F =
V =	C =
RA LA = 1 I	R L = 1 I
RA LL = 2 II	R F = 2 II
V RA/LA/LL = 3	C R/L/F = 3

H3+ AAA

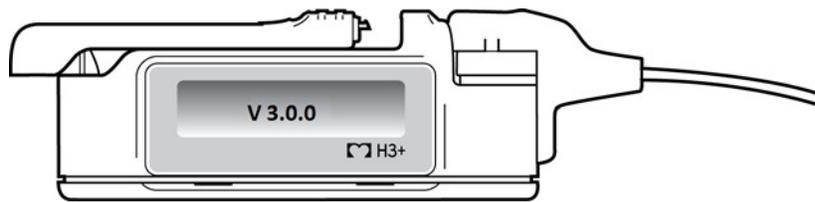
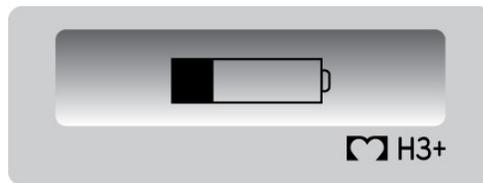
7

H3+

+



: H3+ 24 ,48 7



LCD :

- (: V 3.0.0)

H3+ 3 :

- 3-CH xxxHR

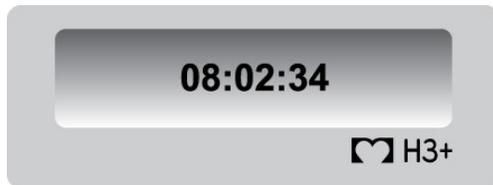
: 2 . 3

Event H3+ LCD , ,



Event

- (HH:MM:SS)



- ID



: ID ID:

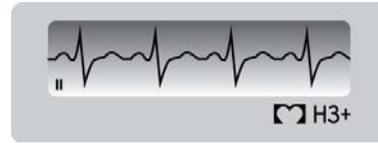
Event H3+ ECG :

- I->II->V-> ->I->II->V-> ->I->II->V-> ...

: ID USB / ID

ECG

ECG



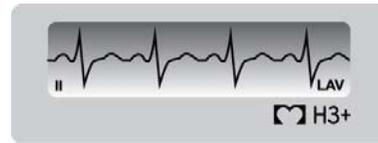
LCD
II,V

,Event

I,

RALALLV

LCD



: LCD

ECG

4mm/mV

:3

P T

QRS

ECG

1. H3+USB

2.

3. H3+

4. H3+

5. AAA

6. ID

7. Event

8. LCD Event 3 .H3+

:

3

Event

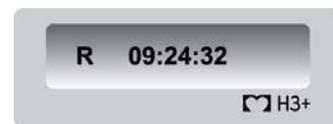
15

H3+

LCD

R

(HH:MM:SS)



H3+

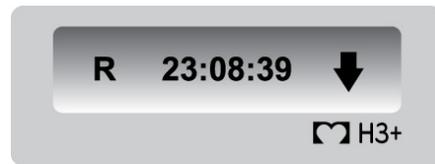
LCD

ID



()

H3+



1

H3+ Event

LCD

ID



ID

- 1. H3+
- 2.
- 3.
- 4.

H3+

H3+USB

H3+

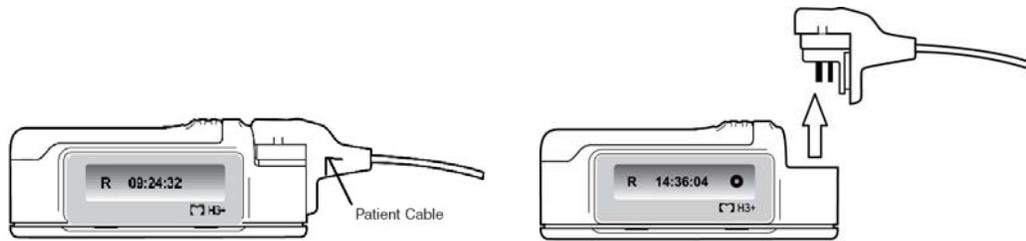
H3+

H3+

H3+

()

1. ECG



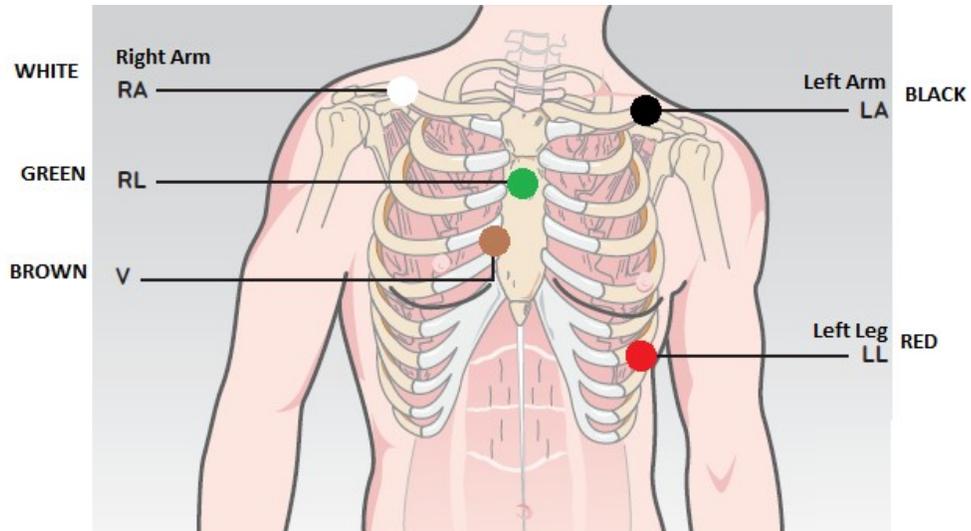
2.

3.

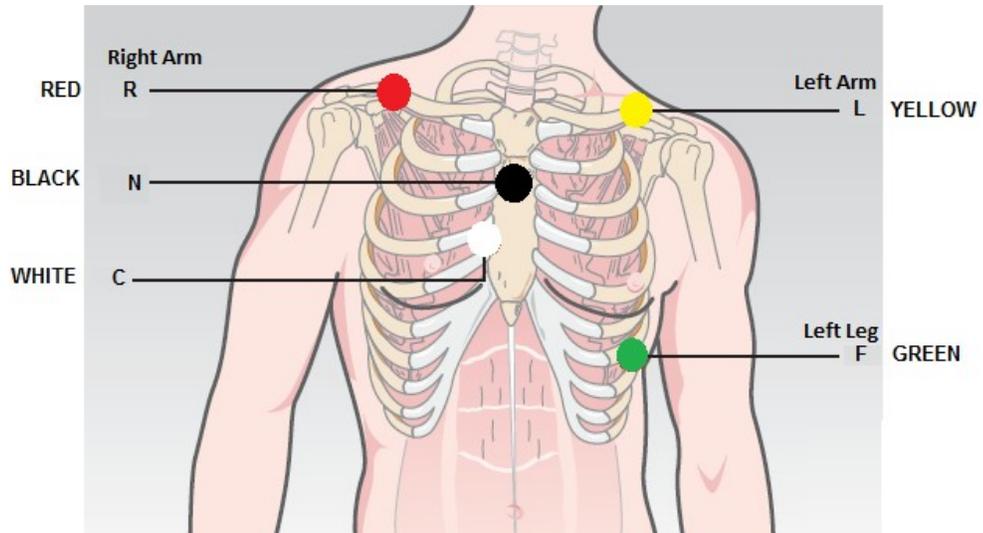
4.

(,)

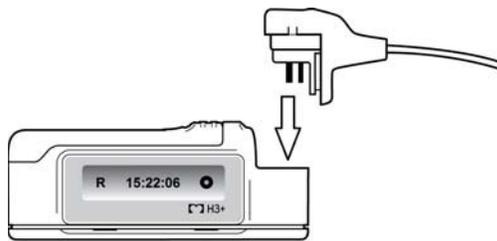
(AHA colors)



(IEC colors)



5.



6.

H3+

1.

2.

3.

-
-
-

4.

- Clorox Healthcare® (),
- APIC (10% 1:500 (100ppm)) 1:10

5.

6.

7.



H3+

1.

-
-
-
-

2. :

-
-
-

H3+

- AAA 24
- H3+ H3+ Hscribe Welch Allyn Web Upload

H3+

5

, ,

Welch Allyn

.Holter

1.

2. / / /

3.

-

-
-

• 90%

- Waste of Electrical and Electronic Equipment(, WEEE)

- WEEE

Hillrom



Waste of Electrical and Electronic Equipment (WEEE)

H3+LCD

	/
	
ID:XXXXXXXXXXXX XXXXXXXXXXXXXXXX	ID H3+ ID ()
	2 3
	
R	
USB	H3+ USB H3+
'RA'	RA
'LA'	LA
'LL'	LL
'V'	V
'RA/...N'	

Welch Allyn

H3+
Welch Allyn

Windows
DEVICE.LOG RECORD.LOG

ECG

.H3+

Welch Allyn, Inc.
4341 State Street Road
Skaneateles Falls, NY
13153 USA/

: 800.231.7437
: +39.051.298.7811

:800-231-7437
:
1.888.667.8272

: / : _____
: _____/_____/_____
: _____
: _____
: _____

(REF)

